

Figure 1. Experimental and analytical setup

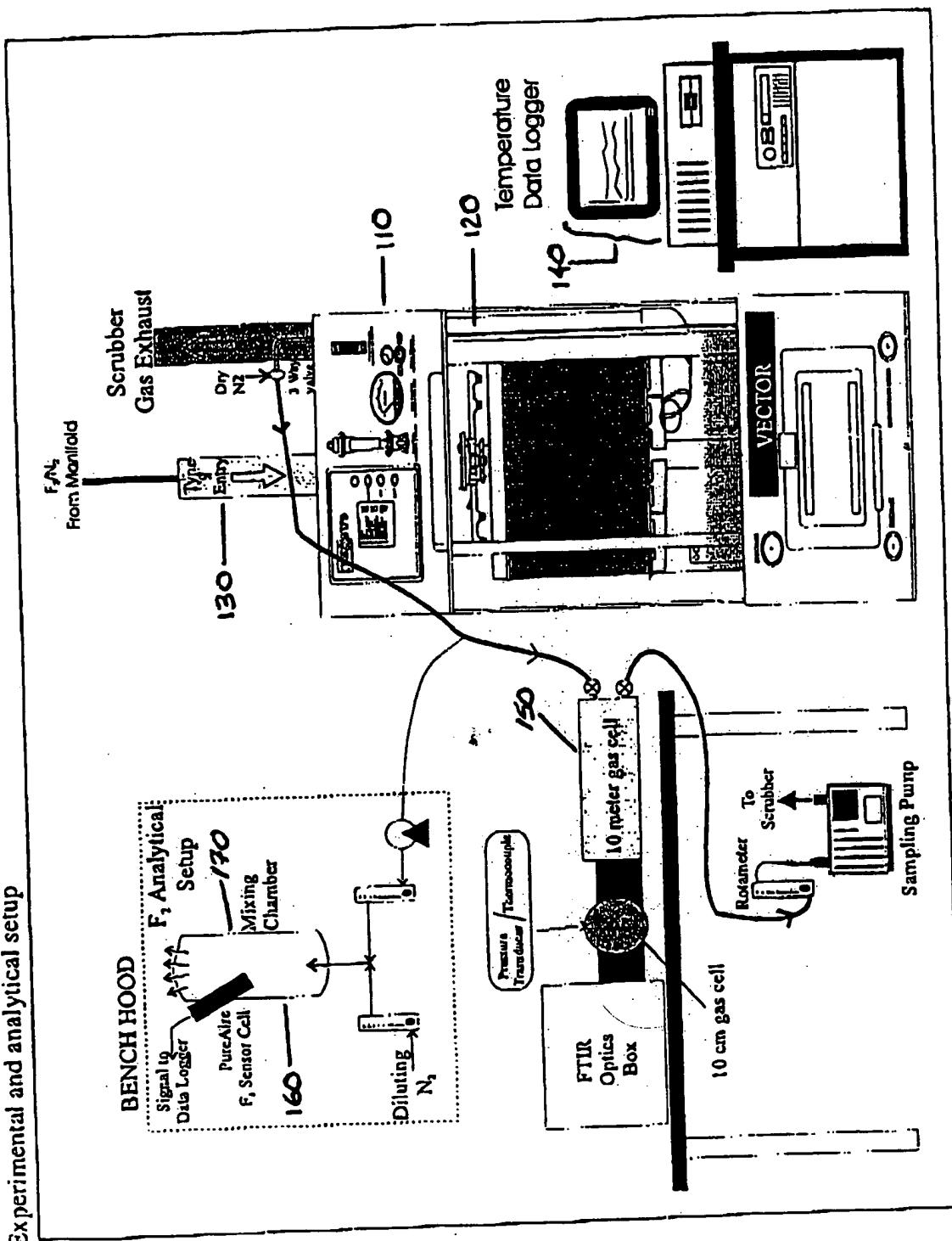


Figure 1

Figure 2-

2/0

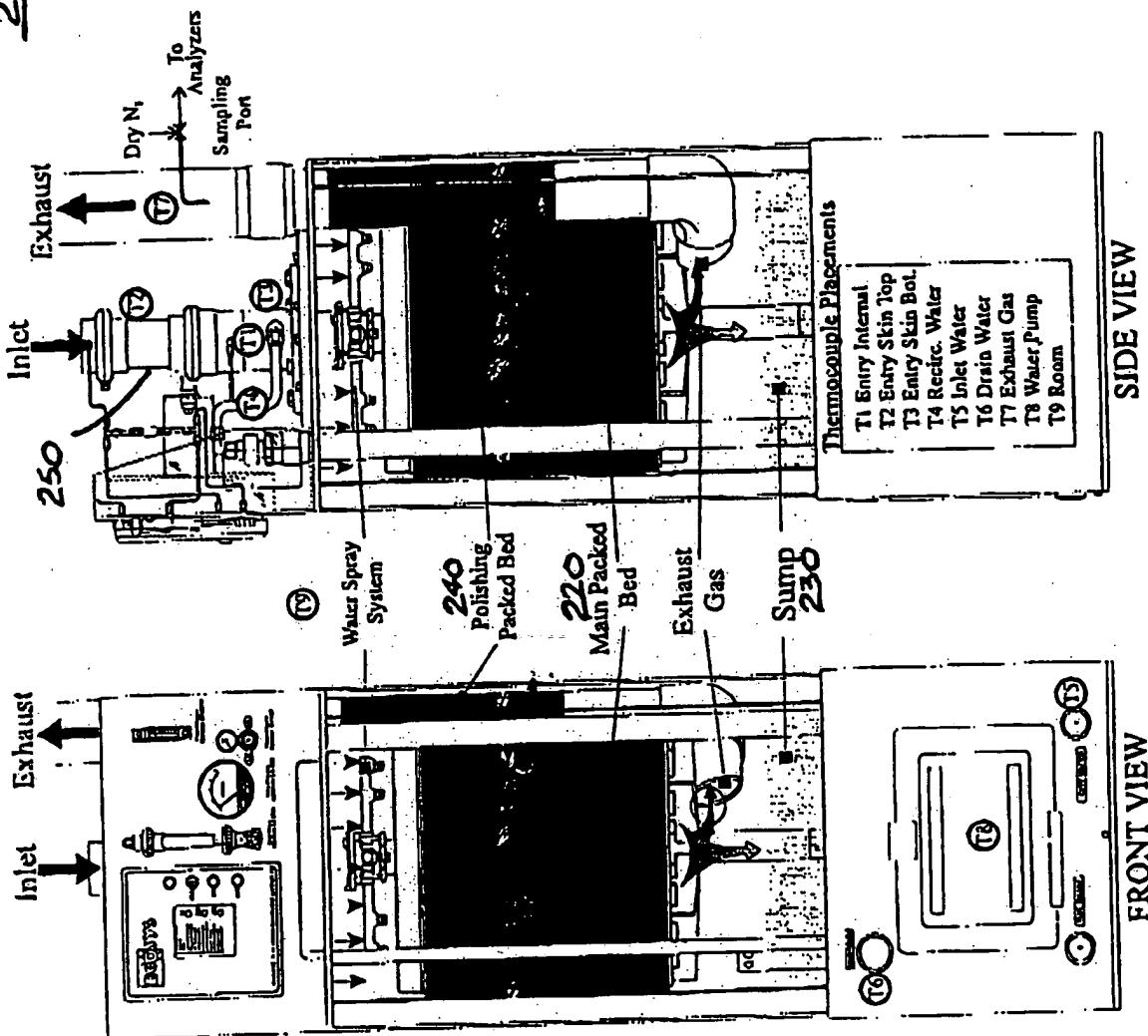


Figure 3. Effect of water use on fluorine abatement efficiency as a function of initial F<sub>2</sub> concentration.

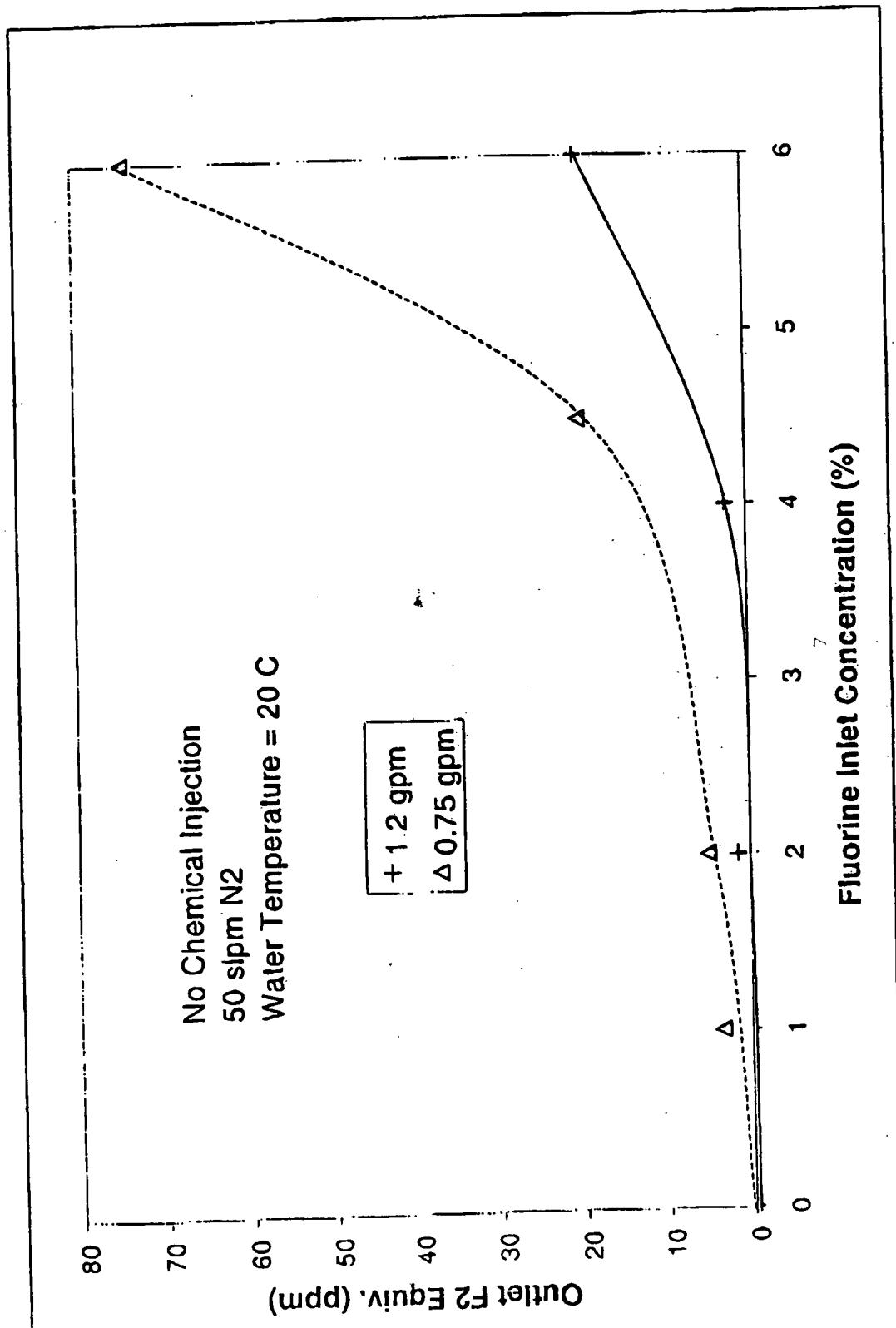


Fig. 4

Time dependent concentration profiles of selected compounds measured at the outlet of the scrubber (Test 4, Table 2).

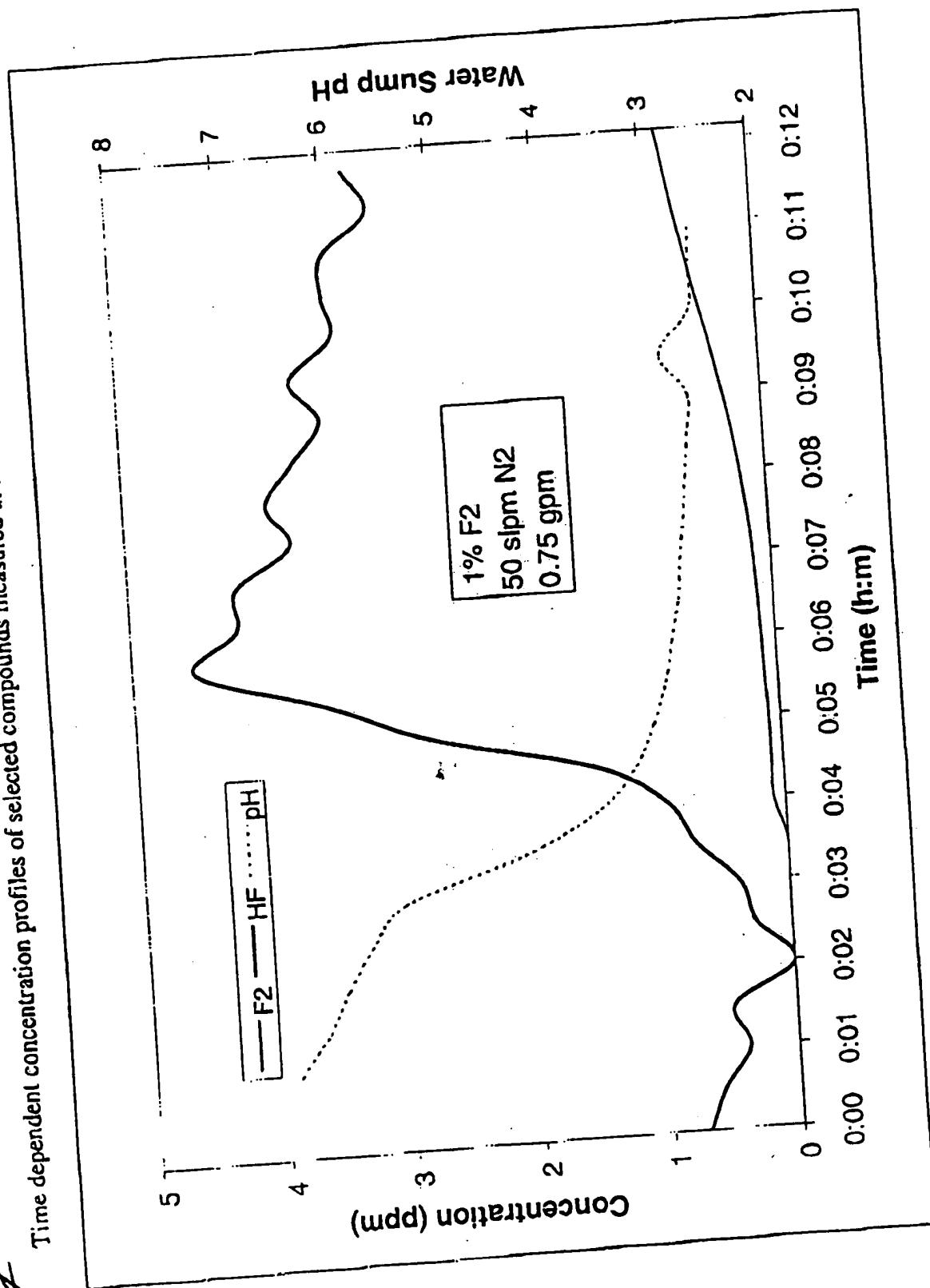
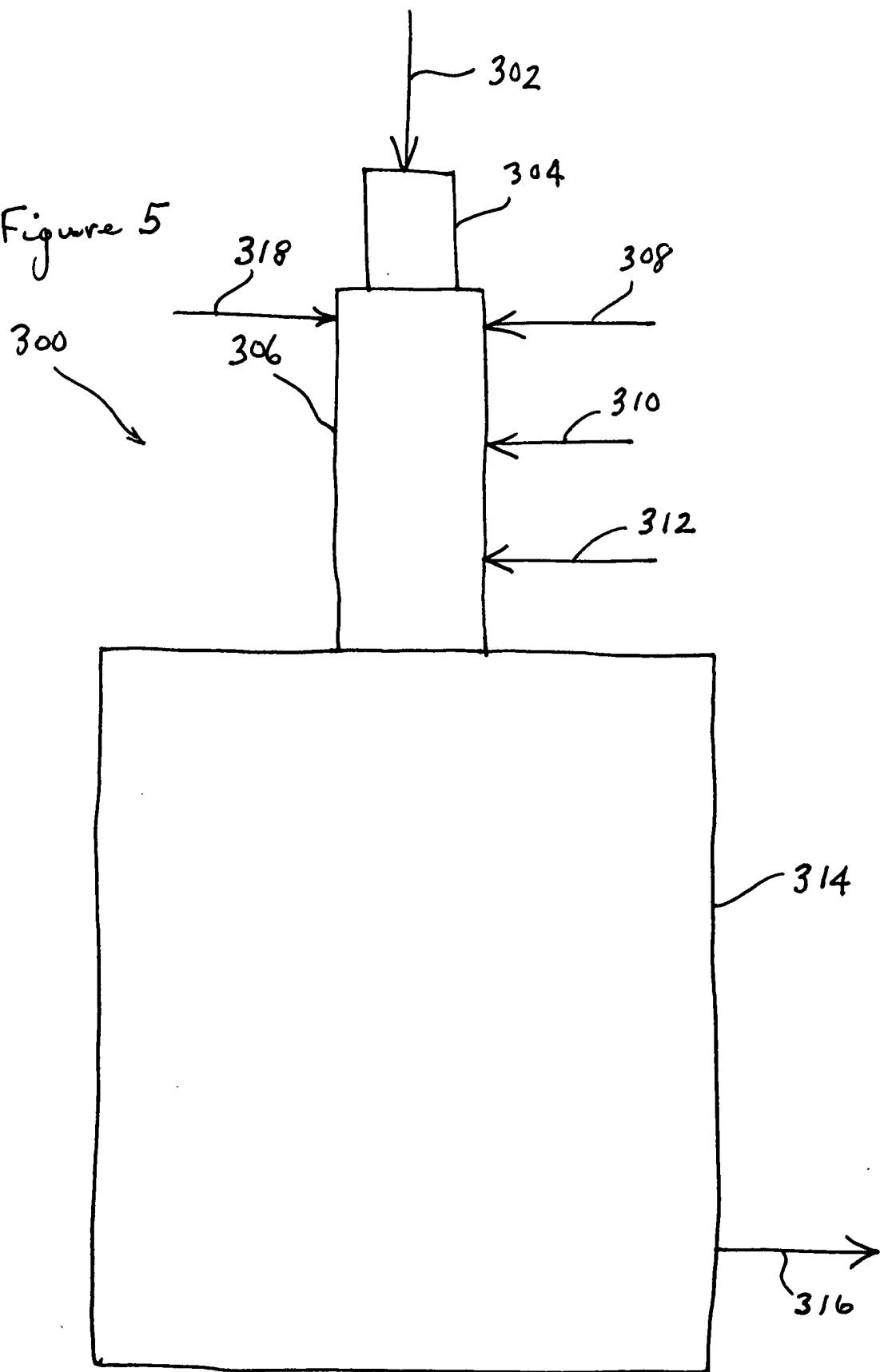


Figure 5



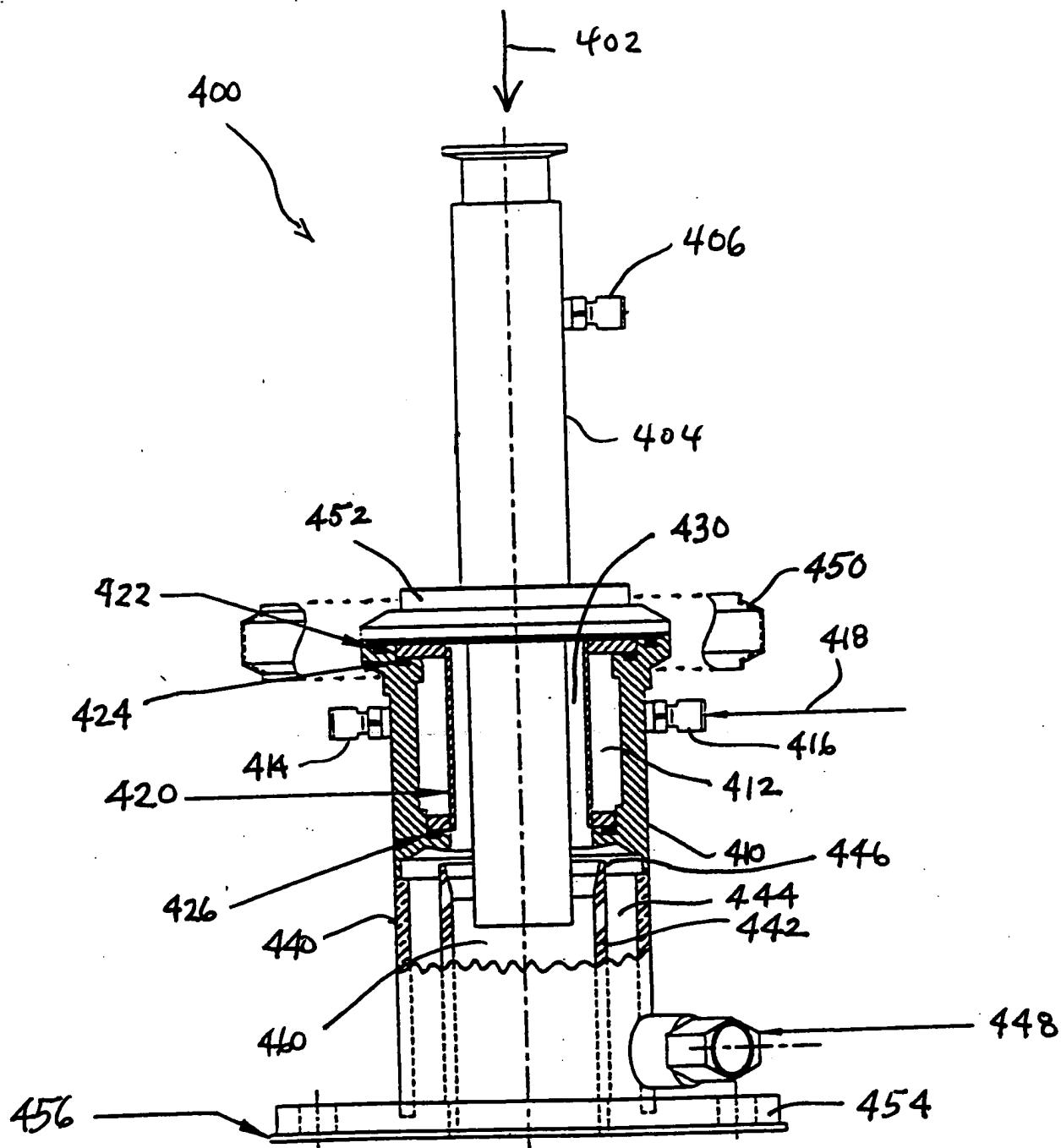


Figure 6

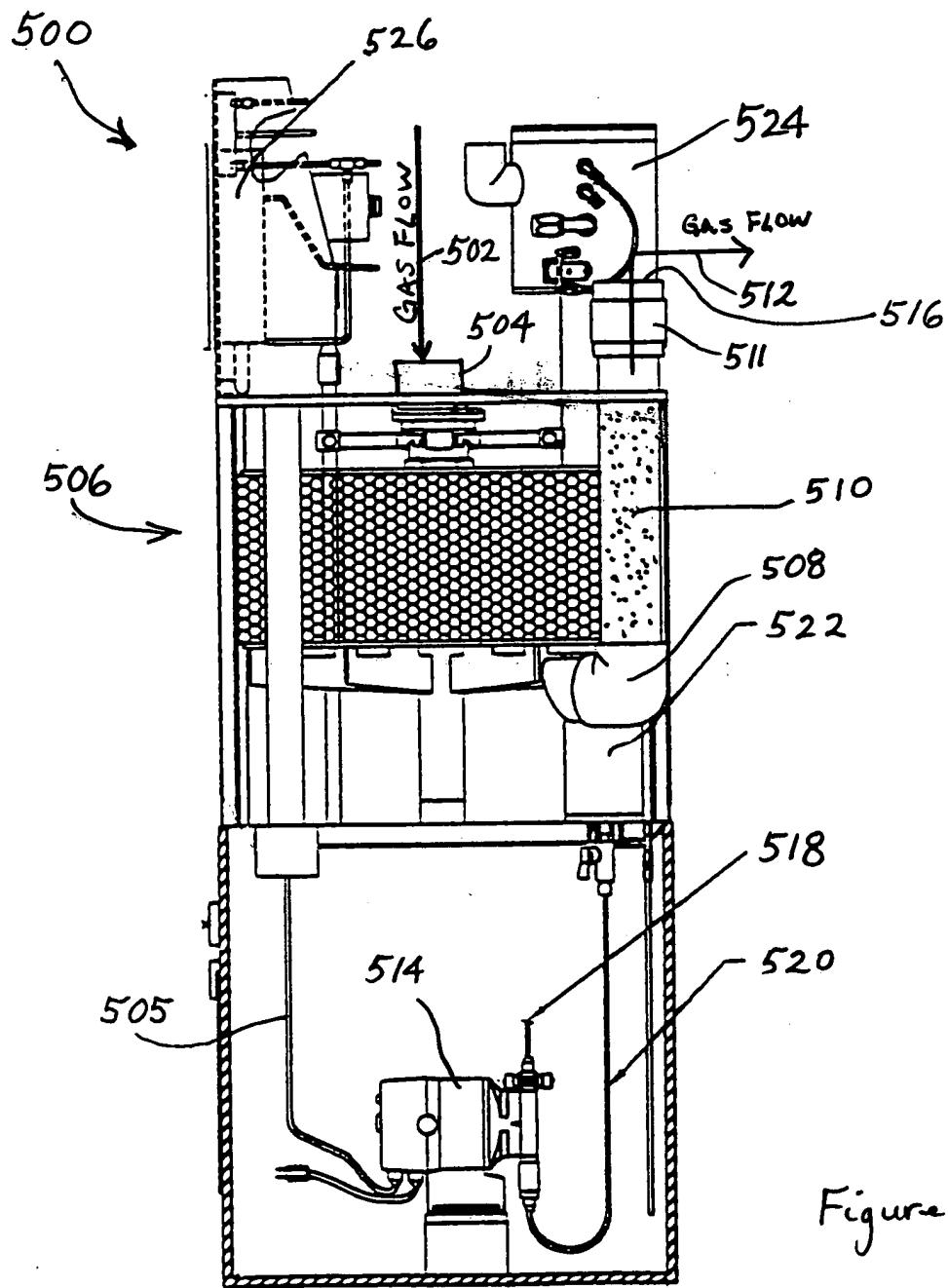


Figure 7

### CaCO<sub>3</sub> Precipitation Rate as a Function of Sump pH.

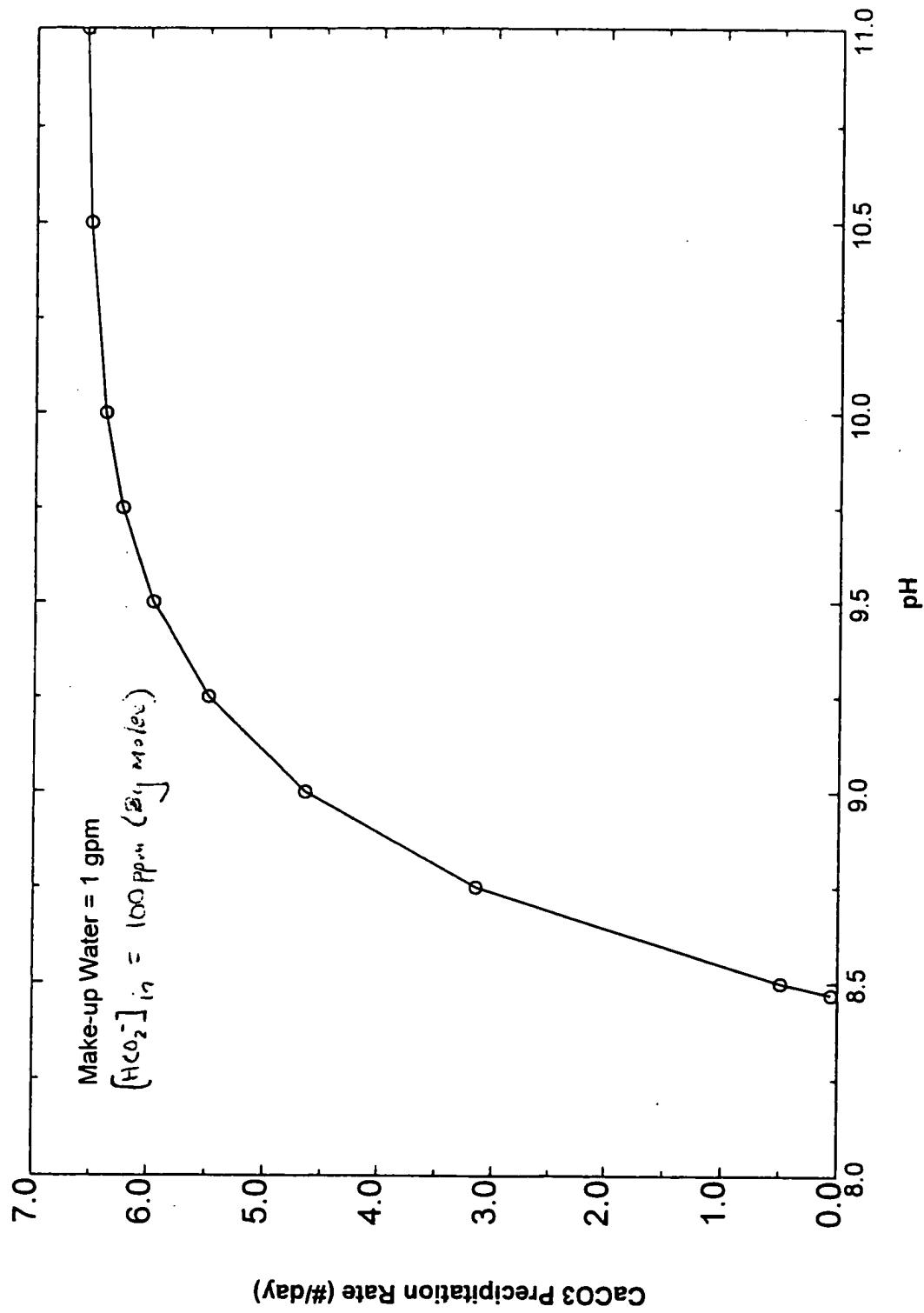
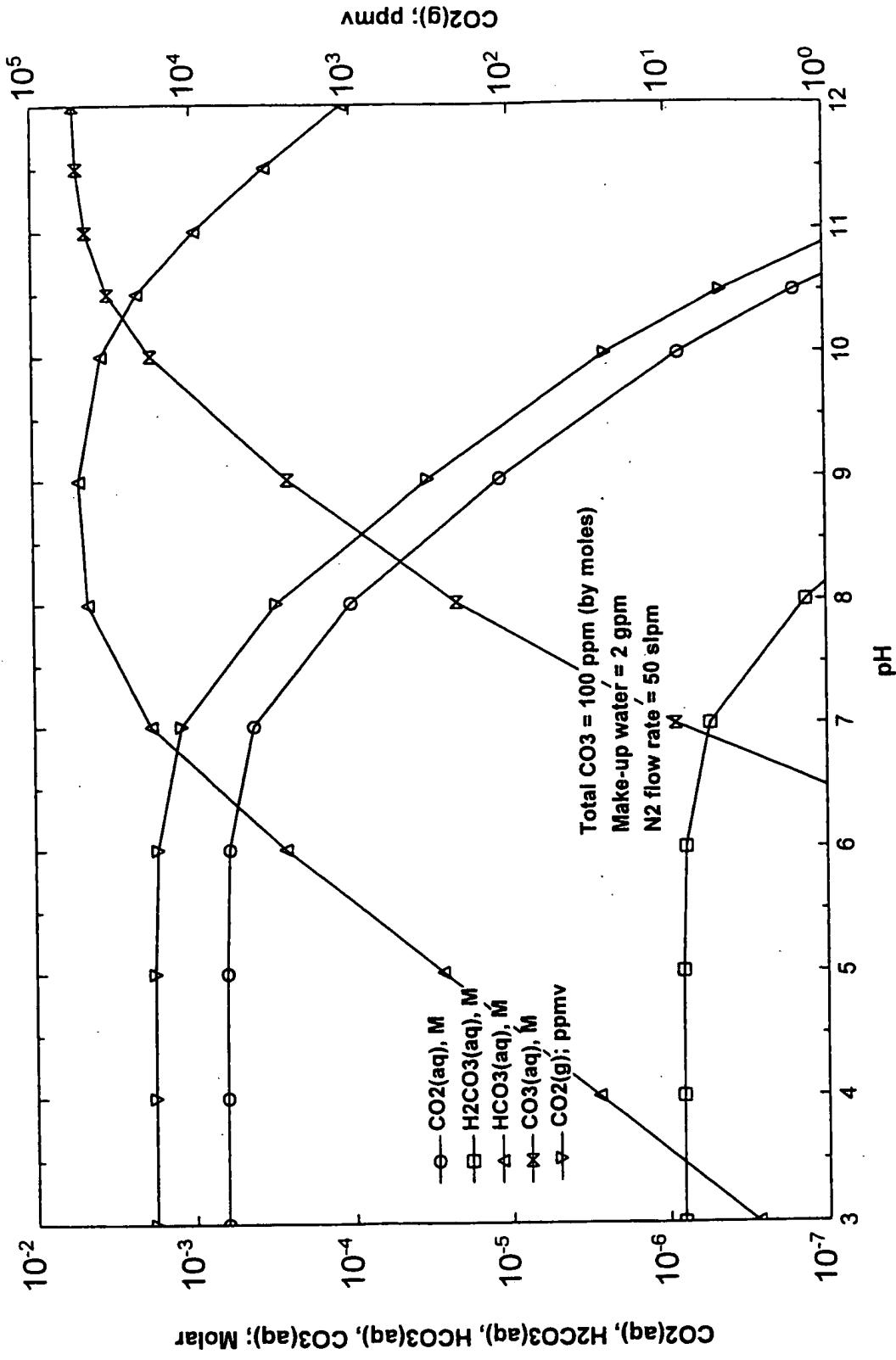


Figure 8

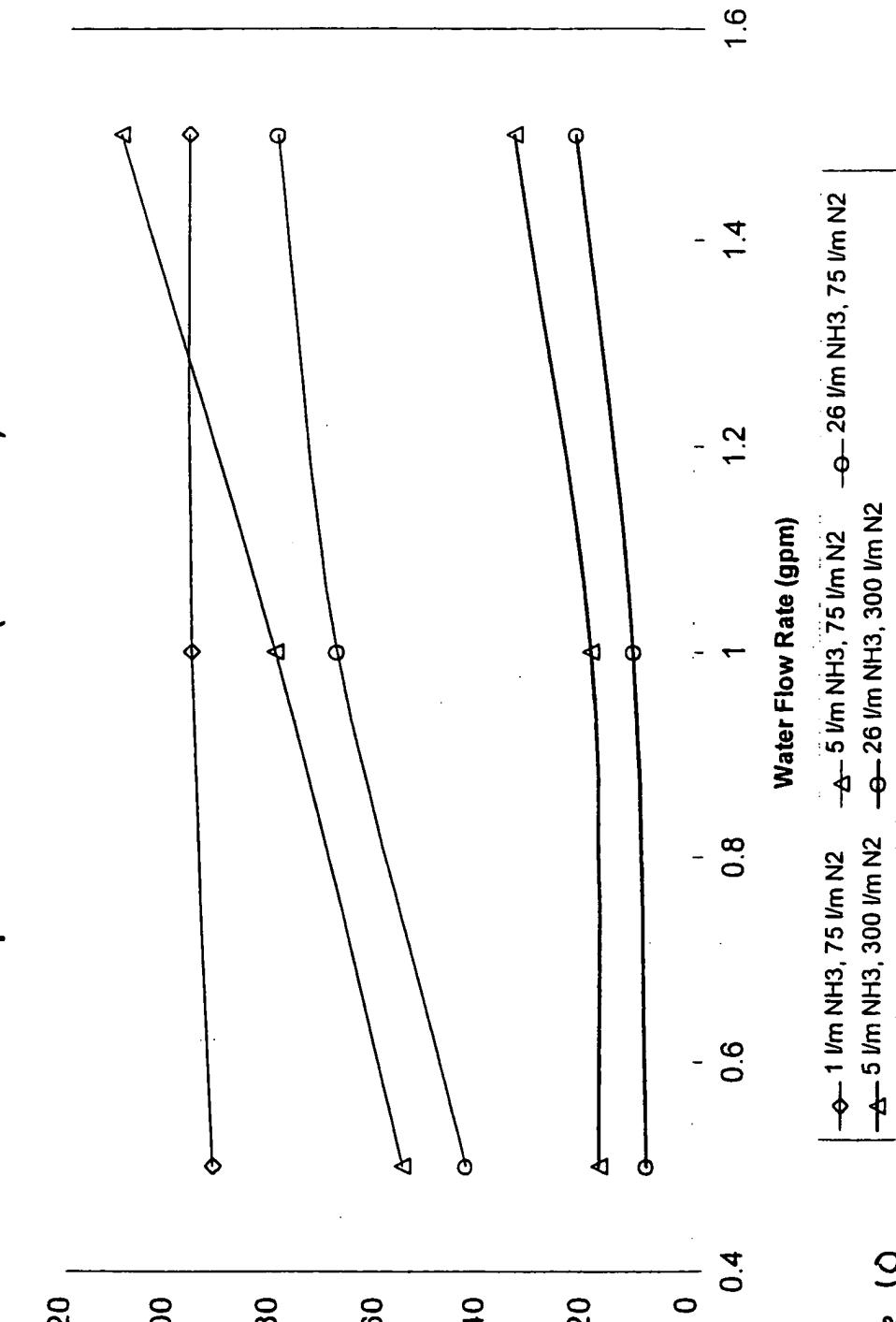
Figure 9

Concentration of Carbonic Acid and Derivatives in Vector Sump.



# Bed Improvements

Improvement Factors (Bed/NoBed)



Improvement Factor (Decrease in  $\text{NH}_3$  exhaust flow when  $\text{NH}_3$  is present)  
is greater than when  $\text{NH}_3$  is present

Figure 10

Figure 11

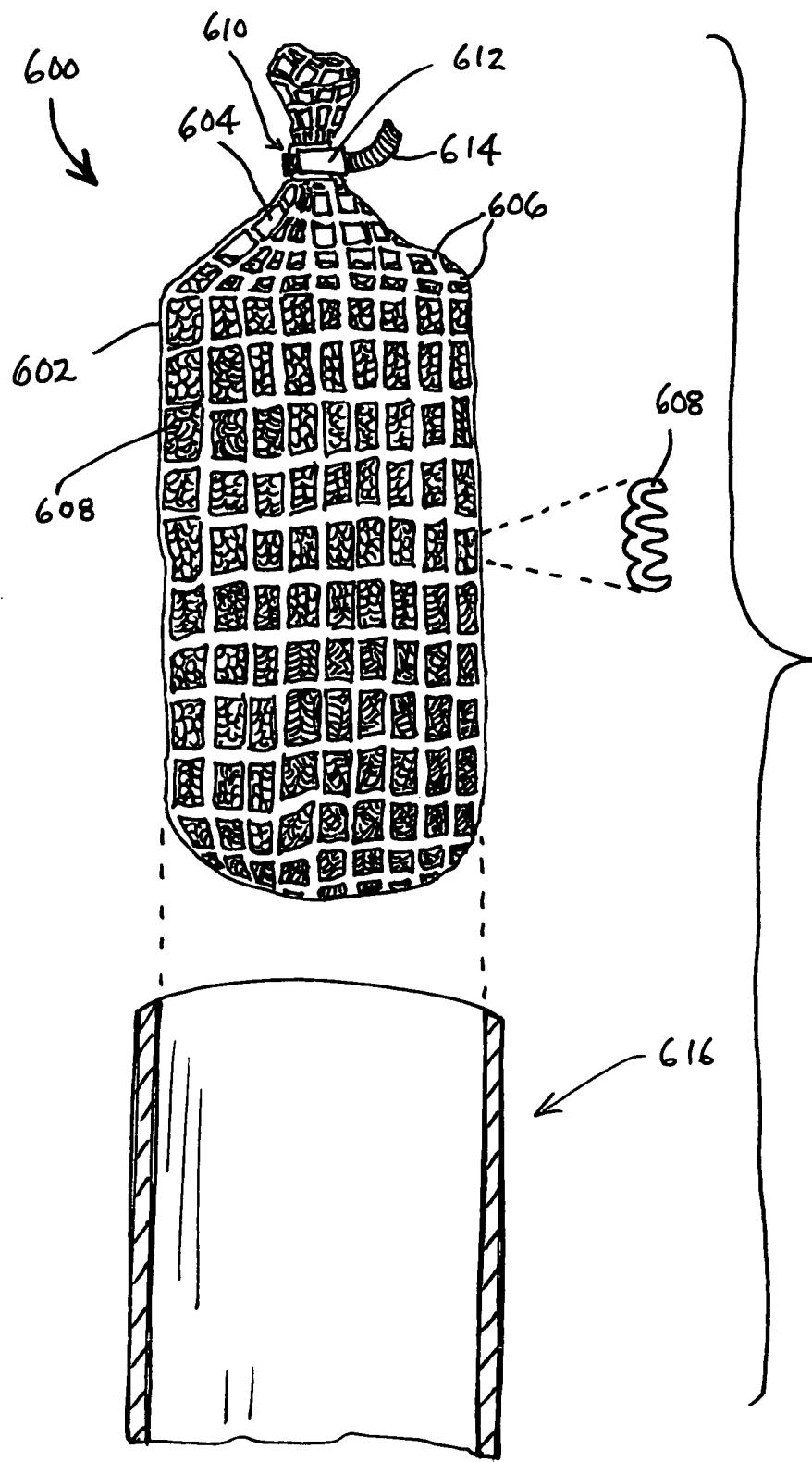
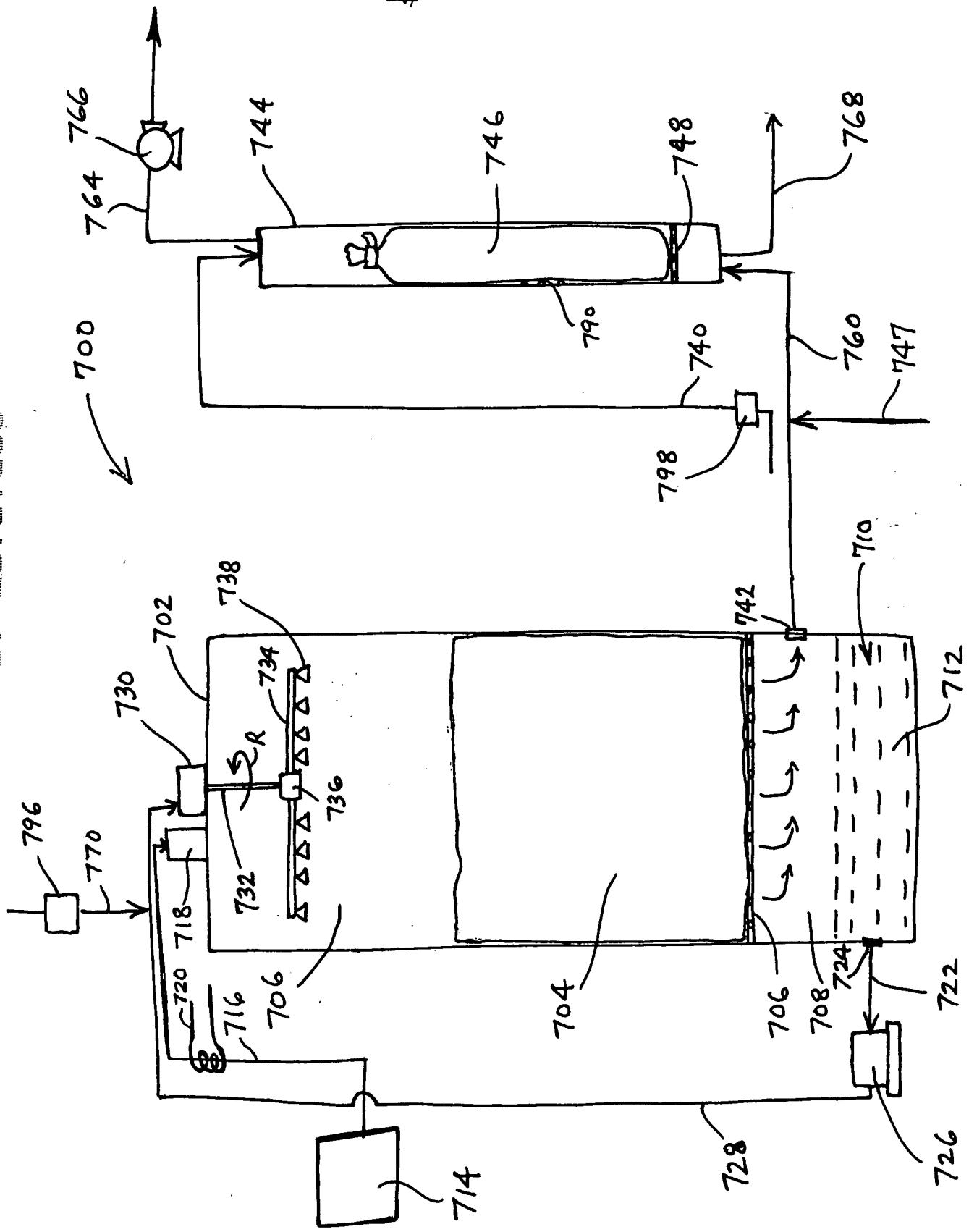


Figure 12



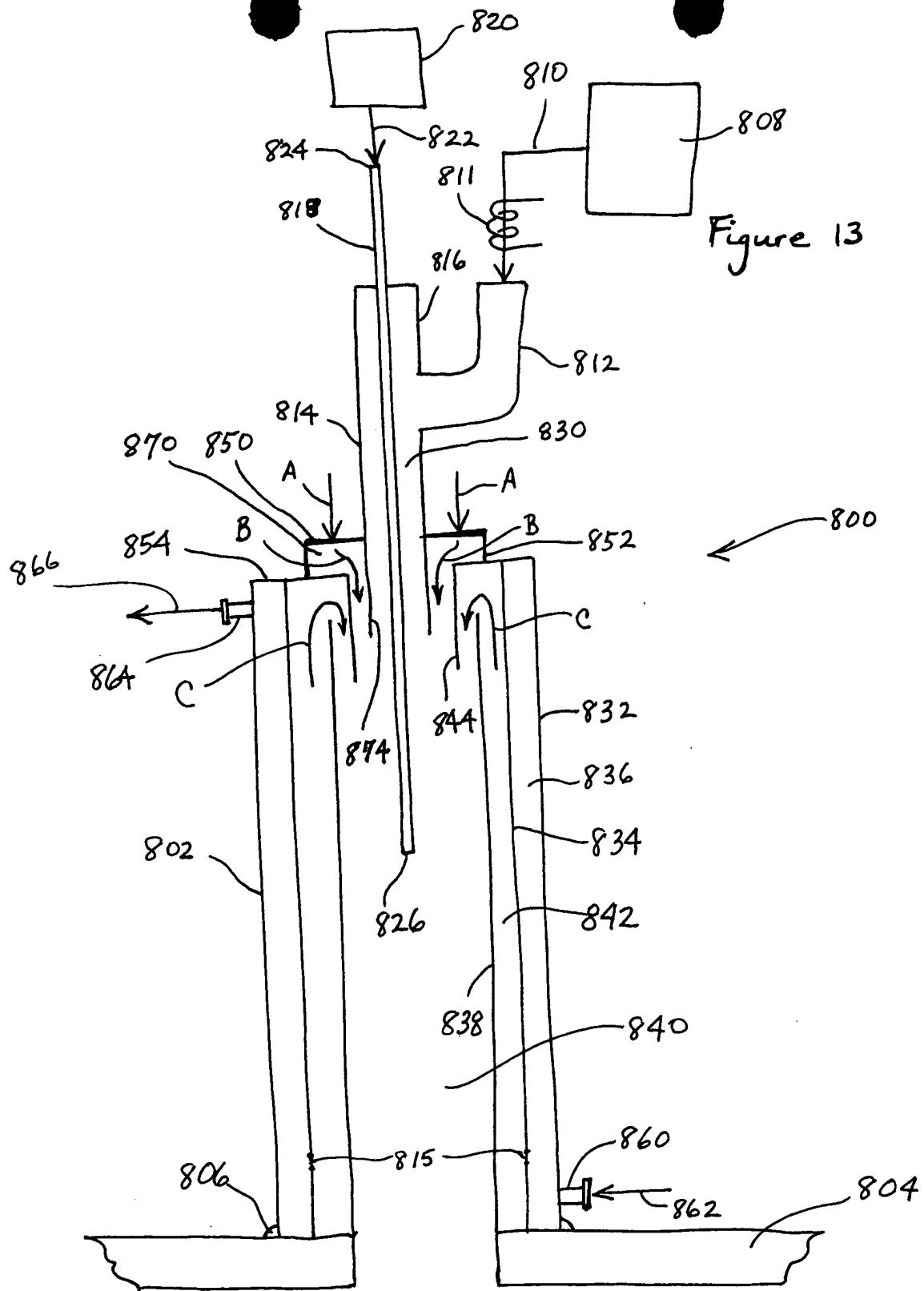


Figure 13